

SPECIES AND HABITATS: BOTANICAL APPENDIX

Documentation of findings and processes used to develop the botany section of the North Fork Coquille Watershed Analysis.

Table BOT-1

This information in this table was extracted from “Rare, Threatened and Endangered Species of Oregon” which was published by the Oregon Natural Heritage Program in March, 1998. This biannual publication lists the current status of special status species in the state. By using information in this book, and the information on the Coos Bay District concerning known plant locations, this table was created to list species that are suspected to occur, or have documented sites, in the analysis area. BLM Manual 6840 establishes policy on the management of special status species.

Table BOT-2

Information in this table was extracted from Alternative 1 of Table 2-2 of the *Draft Supplemental Environmental Impact Statement (DSEIS) For Amendment to the Survey and Manage, Protection Buffer, and Other Mitigating Measures Standards and Guidelines* which was published in December of 1999. This list was used instead of Table C-3 of the **Record of Decision for Amendments to the Forest Service and Bureau of Land Management Planning Documents Within Range of the Northern Spotted Owl**. The rationale behind the selection of DSEIS involved using the document with the highest probability of being in use when this watershed analysis is used as a reference by ID teams and managers.

Table BOT-1: Special Status Plant Species Known or Suspected to Occur in the North Fork Coquille Watershed

Scientific Name	Common Name	P. *	Status**	Habitat
VASCULAR PLANTS				
<i>Adiantum jordanii</i>	Jordan's maidenhair fern	H	TS, ONHP 3	moist shaded seeps or forests
<i>Cyperus bipartitus</i>	shining cyperus	L	TS, ONHP 3	wetlands, seasonally wet meadows
<i>Erythronium revolutum</i>	pink fawn-lily	L	TS, ONHP 4	wet areas, stream banks
<u><i>Iliamna latibracteata</i></u>	California globe mallow	H	AS, ONHP 2	moist ground and stream banks
<i>Lilaea scilliododes</i>	Flowering quillwort	L	TS, ONHP 3	wetlands
<i>Mimulus douglasii</i>	Douglas' monkeyflower	L	TS, ONHP 4	open rocky outcrops in moist soil
<i>Minuartia californica</i>	California sandwort	L	TS, ONHP 4	open rocky outcrops in moist soil
<u><i>Pellaea andromedifolia</i></u>	coffee-fern	D	AS, ONHP 2	rocky outcrops
<i>Phacelia verna</i>	spring phacelia	D	TS, ONHP 4	open mossy covered rock outcrops
<i>Poa laxiflora</i>	loose-flowered bluegrass	D	TS, ONHP 4	moist woods to open rocky slopes
<u><i>Polystichum californicum</i></u>	California sword fern	H	AS, ONHP 2	rocky outcrops
<u><i>Romanzoffia thompsonii</i></u>	Thompson's mist maiden	L	BS, ONHP 1	mossy covered rock outcrops
<i>Samolus parviflorus</i>	water-pimpernel	L	TS, ONHP 4	moist areas < 1300 meters
<i>Sidalcea cusickii</i>	Cusick's sidalcea	D	TS, ONHP 4	open forests, meadows, rocky areas
<u><i>Utricularia gibba</i></u>	humped bladder-wort	H	AS, ONHP 2	ponds, shallow lakes, bogs
<u><i>Utricularia minor</i></u>	lesser bladderwort	H	AS, ONHP 2	ponds, shallow lakes
<i>Viola langsdorfii</i>	Langsdorf violet	L	TS, ONHP 3	coastal and inland wetlands
NON-VASCULAR PLANTS AND FUNGI				
<u><i>Cryptomitrium tenerum</i></u>	liverwort	L	AS, ONHP 2	Unknown
<u><i>Diplophyllum plicatum</i></u>	liverwort	D	AS, ONHP 2	tree boles of <i>Tsuga</i> , <i>Thuja</i>
<u><i>Andreaea schofieldiana</i></u>	moss	L	AS, ONHP 2	dry/exposed to moist/shaded igneous outcrops, montane to subalpine
<u><i>Bryum calbrvoides</i></u>	moss	L	AS, ONHP 2	unknown

Scientific Name	Common Name	P.*	Status**	Habitat
<u>Encalypta brevicolla var. crumiana</u>	moss	L	BS, ONHP 1	soil in shaded crevices in igneous rock
Fissidens paupercaulus	moss	H	TS, ONHP 3	bare, moist soil banks, with F. bryoides
Platyhypnidium riparioides	moss	H	TS, ONHP 3	on rock under or adjacent to waterfalls
<u>Schistostega pennata</u>	luminous moss	L	AS, ONHP 2	on damp soils in dark places, such as root wads
Tetraphis geniculata	moss	L	TS, ONHP 3	rotten wood in coniferous forests, grows with <i>T. pellucida</i>
Albatrellus avellaneus	fungi	H	TS, ONHP 3	hypogenous fungi in coniferous forests
Amanita novinupta	fungi	L	TS, ONHP 3	Unknown
Bondarzewia mesenterica	fungi	H	TS, ONHP 3	coniferous forests, assoc with stumps/snags
Glomus pubescens	fungi	H	TS, ONHP 3	hypogenous fungi in coniferous forests
Gymnopilus punctifolius	fungi	H	TS, ONHP 3	class 4-5 logs in coniferous forests
Helvella elastica	fungi	H	TS, ONHP 3	duff in coniferous forests
Leucogaster citrinus	fungi	H	TS, ONHP 3	hypogenous fungi in coniferous forests
Otidea leporina	fungi	H	TS, ONHP 3	duff in coniferous forests
Phaeocollybia oregonensis	fungi	H	TS, ONHP 3	coniferous forests
Ramaria araiospora	fungi	H	TS, ONHP 3	coniferous forests
Ramaria stuntzii	fungi	H	TS, ONHP 3	coniferous forests

Species which are bolded and underlined require surveys if a project is within potential habitats and within the range of the species.

* Probability: D - Documented, H - High, L - low

** Status

Federal

FE (Federally Endangered) - Species listed as endangered by the US Fish and Wildlife Service under the Endangered Species Act.

SOC (Species of Concern) - All former Candidate 2 species (species which not enough information was known to warrant listing under the ESA). Under BLM draft policy these species will be managed under Bureau Sensitive species guidelines.

State

State Endangered (SE) - Those species listed as endangered in the state by the Oregon Department of Agriculture.

State Threatened (ST) - Those species listed as threatened in the state by the Oregon Department of Agriculture.

Bureau of Land Management

Bureau Sensitive (BS) - Those species which are considered Species of Concern, state listed, and on Oregon Heritage List 1, but not federal candidate species. Management for these species will be to manage the habitat to conserve the species and not contribute to the need to list under the ESA. Management includes inventory at the appropriate time of year in advance of BLM actions and protection of locations. Impacts by BLM actions to the occurrence will be determined in the EA process.

Assessment Species (AS) - These are species which are on ONHP List 2. Occurrences will be recorded when doing field inventories. Impacts will be determined and recommendations for the species will be considered on a case-by-case basis through the EA process. Management includes inventory at the appropriate time of year in advance of BLM actions. These species may not necessarily affect all proposed actions, but where possible, steps should be taken to protect the species.

Tracking Species (TS) - These are species on ONHP Lists 3 and 4. Districts are encouraged to collect occurrence data for these species to determine their status, but are not considered special status plant species for management purposes. Surveys are not required for these species, but should be documented if encountered. Special protection is discretionary.

Oregon Natural Heritage Program (ONHP)

ONHP 1 - Species which are threatened with extinction or presumed to be extinct throughout their entire range.

ONHP 2 - Species which are rare or threatened in Oregon but more common elsewhere. These are typically species at the edge of their ranges.

ONHP 3 - Species which more information is needed before status can be determined.

ONHP 4 - Species which are of conservation concern but are not considered threatened or endangered.

Table Bot-2: Survey & Manage Plant Species Known or Suspected to Occur in the North Fork Coquille Watershed

FUNGI Scientific Name	P.*	Status	Habitat
<i>Albatrellus avellaneus</i>	L	1B	associated with Pinaceae spp.
<i>Albatrellus caeruleoporus</i>	L	1B	associated with <i>Tsuga</i> spp.
<i>Albatrellus ellislii</i>	L	1B	old-growth conifer stands
<i>Albatrellus flettii</i>	L	1B	old-growth conifer stands
<i>Arcangeliella camphorata</i>	H	1B	associated with Pinaceae spp.
<i>Baeospora myriadophylla</i>	H	1B	associated with litter, duff, rotten wood
<i>Balsamia nigrens</i>	L	1B	associated with Pinaceae spp.
<i>Boletus pulcherrimus</i>	L	1B	in humus associated with mixed conifers and hardwoods
<i>Bondarzewia mesenterica</i>	H	1B	late-successional forests, associated with stumps and snags
<i>Cantharellus subalbidus</i>	H	1D	reported from a variety of conifer and mixed forests
<i>Cantharellus tubaeformis</i>	H	1D	reported from a variety of conifer and mixed forests
<i>Catathelasma ventricosa</i>	H	1B	late-successional forests
<i>Chalciporus piperatus</i>	D	1D	low and mid elevation forests
<i>Chamonixia caespitosa</i>	L	1B	associated with <i>Picea</i> , <i>Psuedotsuga</i> and <i>Tsuga</i>
<i>Chromosera cyanophylla</i>	L	1B	associated with coarse woody debris
<i>Chrysomphalina grossula</i>	L	1B	litter/humus
<i>Clavariadelphus ligula</i>	L	1B	late-successional forests with a well developed litter layer
<i>Clavariadelphus pistilaris</i>	L	1B	late-successional forests with a well developed litter layer
<i>Clavariadelphus sachalinensis</i>	L	1B	late-successional forests with a well developed litter layer
<i>Clavariadelphus subfastigatus</i>	L	1B	late-successional forests with a well developed litter layer
<i>Clavariadelphus truncatus</i>	H	1B	late-successional forests with a well developed litter layer
<i>Clavulina ornatipes</i>	H	1B	late-successional forests with a well developed litter layer
<i>Cortinarius cyanites</i>	L	1B	late-successional forests
<i>Cortinarius olympianus</i>	H	1B	associated with Pinaceae spp.
<i>Cortinarius valgis</i>	L	1B	late-successional forests
<i>Cudonia monticola</i>	H	1B	late-successional forests with a well developed litter layer
<i>Cyphellostereum laeve</i>	L	1E	associated with moss in conifer forests
<i>Dermocybe humboldtensis</i>	H	1B	associated with Pinaceae spp.
<i>Endogone oregonensis</i>	H	1B	associated with <i>Picea</i> , <i>Psuedotsuga</i> and <i>Tsuga</i>
<i>Fayodia gracilipes</i>	L	1B	litter/humus
<i>Galerina atkinsoniana</i>	L	1E	associated with moss in moist, late-successional forests
<i>Galerina cerina</i>	L	1E	associated with moss in moist, late-successional forests
<i>Galerina heterocystis</i>	L	1E	associated with moss in moist, late-successional forests
<i>Galerina sphagnicola</i>	L	1E	associated with moss in moist, late-successional forests
<i>Galerina vittaeformis</i>	L	1E	associated with moss in moist, late-successional forests
<i>Gastroboletus turbinatus</i>	L	1B	late-successional forests, associated with Pinaceae spp.
<i>Gomphus bonarii</i>	L	1B	late-successional conifer forests
<i>Gomphus clavatus</i>	H	1F	late-successional conifer forests

FUNGI Scientific Name	P.*	Status	Habitat
Gomphus floccosus	H	1D	late-successional conifer forests
Gomphus kauffmanii	L	1B	late-successional conifer forests
Gymnopilus punctifolius	H	1B	well decayed, large logs & stumps with brown cubicle rot
Gyromitra esculenta	H	1E	saprobic on soil in second-growth forests
Gyromitra gigas	L	1E	saprobic on soil in late-successional forests
Gyromitra infula	H	1E	saprobic on rotten wood in late-successional forests
Gyromitra melalueoides	L	1E	saprobic on soil in late-successional forests
Helvella elastica	H	1B	gregarious on soil under conifers in damp areas
Helvella maculata	L	1B	gregarious to low to mid elevation under mixed conifers
Hydnum umbilicatum	H	1B	late-successional conifer stands and mixed coastal hardwoods
Hydropus marginellus	L	1B	on wood in coniferous forests
Hygrophorus karstenii	L	1B	late-successional forests
Hypomyces luteovirens	L	1B	late-successional forests
Leucogaster citrinus	H	1B	associated with Pinaceae spp. elevation 280-2000 meters
Leucogaster microsporus	L	1B	associated with Psuedotsuga & Tsuga at 330-1000 meters
Mycena tenax	L	1B	litter/humus
Mythicomyces comeipes	L	1B	litter/humus
Neourmula pouchetii	H	1B	conifer stands 35+ years old
Otidea leporina	H	1B	associated with Picea, Psuedotsuga and Tsuga
Otidea onotica	H	1E	associated with Psuedotsuga
Otidea smithii	L	1B	associated with Populus, Psuedotsuga and Tsuga on soil, duff, and moss
Phaeocollybia attenuata	L	1D	moist, well-developed late-successional forests
Phaeocollybia californica	H	1B	associated with Pinaceae
Phaeocollybia dissilens	H	1B	associated with Pinaceae
Phaeocollybia fallax	L	1D	moist, well-developed late-successional forests
Phaeocollybia kauffmanii	H	1D	associated with Pinaceae
Phaeocollybia olivacea	H	1B	moist, well-developed late-successional forests
Phaeocollybia oregonensis	H	1B	associated with Pinaceae
Phaeocollybia picea	H	1B	associated with Pinaceae
Phaeocollybia pseudofestiva	L	1B	moist, well-developed late-successional forests
Phaeocollybia scatesiae	H	1B	associated with Abies, Picea, and Vaccinium
Phaeocollybia sipei	H	1B	associated with Pinaceae
Phaeocollybia spadicea	L	1B	moist, well-developed late-successional forests
Phellodon atratus	L	1B	under conifers
Pholiota albivelata	H	1B	fallen branches and other conifer debris
Plectania melastoma	H	1F	conifer litter
Plectania milleri	H	1B	associated with mixed conifers
Podostroma alutaceum	L	1B	partly decayed wood fragments in conifer duff
Ramaria abietina	L	1B	litter, late-successional forests
Ramaria araiospora	L	1B	humus, associated with Abies, Psuedotsuga & Tsuga

FUNGI Scientific Name	P.*	Status	Habitat
Ramaria aurantiiscescens	H	1B	humus, associated with Abies, Psuedotsuga & Tsuga
Ramaria celerivirescens	L	1B	humus, associated with Abies, Psuedotsuga & Tsuga
Ramaria concolor f. tsugina	L	1B	litter, late successional forests
Ramaria cyaneigranosa	H	1B	humus, associated with Abies, Psuedotsuga & Tsuga
Ramaria gracilis	L	1B	humus, associated with Abies, Psuedotsuga & Tsuga
Ramaria largentii	L	1B	humus, associated with Pinus, Abies, Psuedotsuga & Tsuga
Ramaria rubribrunnescens	L	1B	associated with Pinaceae spp.
Ramaria rubrievanescens	H	1B	associated with Pinaceae spp.
Ramaria rubripermanens	H	1B	associated with Pinaceae spp.
Ramaria stuntzii	H	1B	associated with Pinaceae spp.
Ramaria suecica	L	1B	litter, late successional forests
Rickenella swartzii	L	1B	associated with moss in late successional forests
Russula mustelina	L	1E	late successional forests
Sarcodon fuscoindicum	L	1B	late successional forests
Sarcodon imbricatus	L	1B	late successional forests
Sarcosoma latahense	H	1B	on litter or soil, or on or near decaying wood
Sparassis crispa	H	1D	on roots and stumps, and logs of conifers
Spathularia flavida	L	1F	mature conifer forest with a well-developed duff layer
Stagnicola perplexa	L	1B	litter/duff
Tremiscus helvelloides	L	1B	Riparian, on coniferous woody debris
Tuber asa	L	1B	associated with Psuedotsuga & Tsuga at 170 to 500 meters
Tuber pacificum	L	1B	associated with Psuedotsuga & Tsuga at 235 meters
Tylopilus porphyrosporus	H	1D	in soil, duff or on well decomposed logs

LICHENS Scientific Name	P.*	Status	Habitat
Calicium abietinum	L	1B	moist coniferous forests, underside of leaning trees, snags
Calicium adpersum	L	1F	moist coniferous forests, underside of leaning trees, snags
Cetrelia cetrarioides	D	1F	epiphytic on hardwoods in riparian areas
Chaenotheca subroscida	L	1F	moist coniferous forests, underside of leaning trees, snags
Chaenothecopsis pusilla	L	1F	moist coniferous forests, underside of leaning trees, snags
Cladonia norvegica	L	1E	on rotten wood and tree bases in humid forests
Collema nigrescens	L	1F	bark of broad leaf trees & shrubs, hardwood forests, riparian
Leptogium saturninum	L	1F	bark of deciduous trees and shrubs, sometime on moss over rock
Lobaria linita	L	1A	on trees, shrubs & mossy rocks
Microcalicium arenarium	L	1F	moist coniferous forests, underside of leaning trees, snags
Pannaria rubiginosa	L	1E	on bark and wood of conifers and hardwoods
Peltigera neckeri	L	1F	moist coniferous forests, nonepiphytic
Peltigera pacifica	L	1F	soil, moss, rocks, logs, tree bases, moist forests
Platismatia lacunosa	H	1C	on bark and wood, esp. upper branches of Alnus Rubra
Psuedocyphellaria rainierensis	L	1A	coniferous forest canopy, old growth
Ramalina thrausta	L	1D	bark and wood, old growth

LICHENS Scientific Name	P.*	Status	Habitat
<i>Stenocybe clavata</i>	L	1B	moist coniferous forests, underside of leaning trees, snags
<i>Sticta beauvoisii</i>	L	1F	forested stands

BRYOPHYTES Scientific Name	P.*	Status	Habitat
<i>Buxbaumia viridis</i>	H	1D	well rotted logs, peaty soil & humus, coniferous forests
<i>Diplophyllum albicans</i>	D	1D	a variety of moist, shaded substrates - bark, wood, cliff crevices, loamy soil
<i>Diplophyllum plicatum</i>	H	1B	decayed wood, tree boles, mineral soil, rock in cool, moist conditions
<i>Encalyptra brevicolla</i> v. <i>crumiana</i>	L	1B	crevices and ledges of igneous rocks
<i>Kurzia makinoana</i>	L	1B	forested and bog sites on decaying wood, humus, or peaty humus
<i>Ptilidium californicum</i>	H	1F	epiphytic on trees, or on logs, boulders, stumps, base of trees
<i>Schistostega pennata</i>	L	1A	mineral soil in shaded pockets of overturned trees, rock, around caves
<i>Tetraphis geniculata</i>	L	1A	well rotted logs and stumps, especially cut ends of logs

VASCULAR PLANTS Scientific Name	P.*	Status	Habitat
<i>Botrychium minganense</i>	L	1A	old growth associated with <i>Thuja plicata</i> and riparian areas
<i>Botrychium montanum</i>	L	1A	old growth associated with <i>Thuja plicata</i> and riparian areas

*Probability: H-high, L-low, D-documented

Status refers to draft supplemental environmental impact statement. For Amendment to the Survey and Manage, Protection Buffer, and other Mitigating Measures Standards and Guidelines